

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims**

Claims 1-19 (cancelled)

Claim 20 (Currently Amended): A ~~three-dimensional~~ sensor device ~~incorporated into a seam of a primary container~~, comprising:

a biosensor comprising a receptor bound on a solid substrate;

a sensor compartment having an interior and an exterior, and enclosing the biosensor, ~~said the sensor compartment further~~ having a surface allowing external viewing of the biosensor; and

a separation barrier forming at least a portion of the sensor compartment, ~~separating the separation barrier being selected from the group consisting of a fibril membrane, a microporous membrane and a capillary-pore membrane, the separation barrier having at least one pore allowing fluid communication between the interior from the and~~ exterior of the sensor compartment; and

~~at least one gated pore contained within the separation barrier allowing fluid communication between the interior and exterior of the sensor compartment, with the gated pore being initially closed by a functional occlusion material.~~

Claim 21 (Previously Presented): The sensor device of claim 20, wherein the separation barrier separates the interior of the sensor compartment from a primary container.

Claim 22 (Previously Presented): The sensor device of claim 20, wherein the at least one pore is occluded with a responsive material.

Claim 23 (Currently Amended): The sensor device of claim ~~20~~ 22, wherein the ~~functional-oocclusion~~ responsive material is selected from the group consisting of cellulotics, non-cellulosic non-protein polymers, protein polymers, lipid bilayers, and lipid-containing composites.

Claim 24 (Currently Amended): The sensor device of claim ~~20~~ 22, wherein the ~~functional-oocclusion~~ responsive material exhibits a response selected from the group consisting of eroding, dissolving, and changing three-dimensional form.

Claim 25 (Currently Amended): The sensor device of claim 24, wherein the response results from a change selected from the group consisting of a change in solvent concentration, a change in pH, a change in temperature, bacterial action, endotoxin action, ~~and enzymatic action,~~ and contact with water.

Claim 26 (Previously Presented): The sensor device of claim 20, wherein the surface allowing external viewing permits optical sensing of the biosensor.

Claim 27 (Previously Presented): The sensor device of claim 20, wherein the sensor compartment has walls comprised of an opaque material.

Claim 28 (Cancelled)

Claim 29 (Currently Amended): The sensor device of claim 20, wherein the biosensor ~~is comprised of:~~

~~a solid substrate; and~~

further comprises a bioactive detector molecule and signal material.

Claim 30 (Previously Presented): The sensor device of claim 29, wherein the bioactive detector molecule and signal material are a fluorescent receptor complex.

Claim 31 (Previously Presented): The sensor device of claim 29, wherein the bioactive detector molecule and signal material are a fluorochrome-receptor complex.

Claim 32 (Previously Presented): The sensor device of claim 29, wherein the bioactive detector molecule and signal material are a combination of a first fluorescent receptor and a second fluorescent receptor, the second receptor emitting detectable light of a unique wavelength on excitation by fluorescent resonance transfer by the first fluorescent receptor.

Claim 33 (Previously Presented): The sensor device of claim 29, wherein the bioactive detector molecule and signal material are a combination of a first receptor and a second receptor, the first receptor binding a cell and the second receptor undergoing a detectable spectral change in response to material released by the cell bound to the first receptor.

Claim 34 (Previously Presented): The sensor device of claim 29, wherein the bioactive detector molecule and signal material are a combination of two inhibited fluorescent groups linked by an enzymatic cleavage site, and wherein enzymatic action cleaves the enzymatic cleavage site and releases the fluorescent inhibition.

Claim 35 (Previously Presented): The sensor device of claim 29, wherein the bioactive detector molecule and signal material are a combination of a first receptor and a second receptor, the first receptor binding a cell capable of releasing an enzyme and the second receptor being an inhibited fluorescent group wherein the enzyme releases the fluorescent inhibition.

Claim 36 (Previously Presented): The sensor device of claim 21, wherein the primary container is closed for analysis.

Claim 37 (Previously Presented): The sensor device of claim 20, wherein the device is capable of aseptic operation.

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Claim 38 (Previously Presented): The sensor device of claim 20, wherein the external sensing is remote sensing.